

Claims

1. A tool support provided for machining a work piece on the working spindle of a lathe, characterized by
 - a basic structure;
 - a slide mounted on that basic structure which is displaceable in a controlled manner transversely to the spindle axis along an axis (Y);
 - two tool holders mounted parallelly to each other on that slide for holding different tools, that holders being displaceable in an angle 90° with respect to the direction of movement of the slide individually or selectively with respect to the spindle axis along an axis (X) into the working position and out of this working position and out of this working position respectively, and
 - driving means for displacing the slide and the tool holders sequentially or simultaneously along their axis of movement (Y resp. X) into a predetermined working position.
2. Tool supporting according to claim 1, characterized in that said basic structure is adjustable along an axis (Z) which is parallel to said spindle axis.
3. Tool support according to claim 2, characterized in that said basic structure can be mounted on a tool slide which is displaceable along said spindle axis.
4. Tool support according to any of claims 1 to 3, characterized in that said tool holders are movable into

their working position against a resetting force, e.g. against a spring force.

5. Tool support according to any of claims 1 to 3, characterized in that said driving means comprise a common motor having a driving shaft for a driving wheel (100), the latter driving an intermediary gear (102) which in turn driving a control cam curve (103) for the transverse slide (105) and/or two further control cam curves (106,106') for the tool holders (107,107').

6. A lathe equipped with tool supports according to any of claims 1 to 4, characterized in that a plurality of tool supports is arranged around the working, spindle, preferable in a star-shaped configuration with angular distance of 120°, each tool support having its own driving means for its displaceable components.